

WHAT IS CLAIMED IS:

1. An apparatus for interfacing video information, comprising:
a main body, which outputs a video signal and corresponding display
information; and
a monitor, which detects a display type of the corresponding video signal
in accordance with the display information, and displays the video signal outputted from
the main body in accordance with the detected display type.

2. A video interface, comprising:
a main body, which outputs a video signal through a video signal line, and
outputs information relating to the video signal display type through a communication
line; and
a monitor, which detects the display type of the corresponding video signal
in accordance with the display type information, and displays the video signal outputted
from the main body in accordance with the detected display type.

3. The video apparatus as claimed in claim 2, wherein the communication line
is a display data channel (DDC).

4. An apparatus for interfacing video information in a computer system, comprising:

a main body, which outputs a video signal, a horizontal sync signal and a vertical sync signal at least one of which carries video signal display information; and

a monitor, which detects the type of display for the corresponding video signal in accordance with the display information, and displays the outputted video signal in accordance with the detected display type.

5. A video interface, comprising:

a main body, which provides information relative to a display type of a video signal embedded in a video signal, a horizontal sync signal and a vertical sync signal, and outputs the video signal, the horizontal sync signal and the vertical sync signals; and

a monitor which detects the display type of the corresponding video signal in accordance with the display type information outputted from the main body, and displays the video signal in accordance with the detected display type.

6. An apparatus for interfacing video information in a computer system, comprising:

a monitor, which outputs data identifying a video type of a video signal that can be displayed by the monitor, and displays the video signal externally inputted in a corresponding video type; and

a main body, which converts a display type of the video signal to match the video type data outputted from the monitor, and outputs the converted video signal to the monitor.

7. The apparatus as claimed in claim 6, wherein the video type data of the video signal that can be displayed by the monitor is a factory mode predetermined during a manufacturing process of the monitor.

8. A method of interfacing video information, comprising:
transmitting video signal display type information for a main body to a monitor through one of the horizontal and vertical sync signals, a video signal, and communication data; and

detecting a display type of the video signal transmitted from the main body using the video signal display type information, and displaying the video signal to match the display type.

9. The method as claimed in claim 8, wherein the display type information includes a recognition code for designating a kind of the corresponding display type information, and data corresponding to the recognition code.

10. The method as claimed in claim 9, wherein the recognition code is composed of two bits.

11. The method as claimed in claim 9, wherein the data includes a number of dots in a horizontal period, a number of backporches in the horizontal period, a number of horizontal lines in a vertical period, and a number of horizontal lines of a backporch in the vertical period.

12. A method of interfacing video information, comprising:
transmitting display type information of a video signal in communication data, along with the horizontal and vertical sync signals from a main body to a monitor;
and
detecting a display type of the transmitted video signal using the display type information, and displaying the video signal to match the display type.

transmitting to a monitor the horizontal and vertical sync signals having the divided display type information, along with the video signal;

decoding and reassembling the display type information; and

detecting a display type of the transmitted video signal using the reassembled display type information.

18. The method as claimed in claim 17, wherein the main body synchronizes the display type information with the vertical sync signal.

19. The method as claimed in claim 17, wherein a clock pulse for recognizing the display type information is included in the vertical sync signal.

20. A method of interfacing video information, comprising:

transmitting display type information of a video signal from a monitor to a main body;

receiving the display type information and converting a type of video signal based on the received information to match a display type of the monitor; and

displaying on the monitor the video signal transmitted from the main body.

21. The method as claimed in claim 20, wherein the display type information of the video signal that can be displayed by the monitor is a factory mode predetermined during a manufacturing process of the monitor.

22. The device of claim 1, wherein the display information comprises a number of dots for a horizontal period, a number of backporches for the horizontal period, a number of horizontal lines for a vertical period, and a number of horizontal lines of a backporch for the vertical period.

23. The device of claim 1, wherein the video signal comprises a RGB signal, a horizontal sync signal, and a vertical sync signal.

24. The device of claim 1, wherein the display information is transmitted in serial data.

25. An apparatus for interfacing video information, comprising:
a monitor which transmits information regarding a display type of a video signal through a display data channel; and

5 a computer which converts the display type of the video signal based on the information received from the monitor through the display data channel and transmitting the converted video signal with horizontal and vertical sync signals to the monitor.

26. An apparatus for interfacing video information, comprising:

a computer transmitting horizontal and vertical sync signals, serial data signal and serial clock signals through a display data channel, and a video signal; and

a monitor receiving the horizontal and vertical sync signals, serial data signal and serial clock signals through the display data channel, and the video signal, wherein a display type information of the video signal is included in one of the serial data signal of the display data channel and the horizontal sync signal.

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